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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/085,272	02/27/2002	Jung Yun Do	2013P023	. 1201
8791	7590 06/20/2003			
BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD, SEVENTH FLOOR LOS ANGELES, CA 90025			EXAMINER	
			POWERS, FIONA	
			ART UNIT	PAPER NUMBER
		1626		
			DATE MAILED: 06/20/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/085,272	DO ET AL.			
		Examiner	Art Unit			
		Fiona T. Powers	1626			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status						
1)□	Responsive to communication(s) filed on	<u> </u>				
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims						
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.						
4a) Of the above claim(s) <u>5-19</u> is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>3 and 4</u> is/are allowed.						
6)⊠ (	6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) (Application	Claim(s) are subject to restriction and/or on Papers	election requirement.				
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
	1.⊠ Certified copies of the priority documents	have been received.				
2	2. Certified copies of the priority documents have been received in Application No					
3	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
<ul> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>						
Attachment(						
2) Notice 3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s) 3.	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)			
S. Patent and Trace PTO-326 (Rev.		on Summary	Part of Paper No. 4			

Receipt is acknowledged of the disclosure statement filed May 7, 2002, which has been entered in the file.

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1 to 4, drawn to organic dye molecular material, classified in class 534, subclasses 797, 852, 855, and 857, class 548, subclasses 243 and 244, class 558, subclass 426 and class 560, subclass 21.
- II. Claims 5 to 11, drawn to an optical polymeric compound containing polyimide repeating units, classified in class 528, subclass 170.
- III. Claims 12 to 19, drawn to an optical polymeric compound containing polyimide repeating units, classified in class 528, subclass 170.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and (II or III) are related as mutually exclusive species in an intermediate-final product relationship. Distinctness is proven for claims in this relationship if the intermediate product is useful to make other than the final product (MPEP § 806.04(b), 3rd paragraph), and the species are patentably distinct (MPEP § 806.04(h)). In the instant case, the intermediate product is deemed to be useful as an

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intermediate for the preparation of diphenylpolyene and poly(p-phenylenevinylene) oligmers and the inventions are deemed patentably distinct since there is nothing on this record to show them to be obvious variants. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions anticipated by the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

The compounds of inventions II and III are patentably distinct from one another because of their structural differences. The polymeric compound of Group II contains chromophores bonded to a dihydroxybenzene derivative and the polymeric compound of Group II contains chromophores bonded to a carbazole derivative.

Consequently, prior art which would render one group obvious would not necessarily render the other groups obvious under 35 U.S.C. 103.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and recognized divergent subject matter and the search required for one of the groups is not

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required for the other groups, restriction for examination purposes as indicated is proper. In addition, a search of all of the claims would impose a serious burden on the examiner and the Patent Office resources since separate patent, literature and computer searches would have to be done.

During a telephone conversation with Eric Hyman on June 13, 2003 a provisional election was made with traverse to prosecute the invention of Group I, claims 1 to 4. Affirmation of this election must be made by applicant in replying to this Office action. Claims 5 to 19 stand withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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Claim 2 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Variable  $X_2$  which appears in formulae(A-1) and (A-2) is monovalent yet is defined as a carbonyl group (C=0) which is a divalent radical.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Ashworth et al. (Chemical Abstracts, 133:89901, 2000), cited.

The reference discloses the claimed organic dye molecular material of the formula shown in claim 1 wherein X is a hydrocarbon, D is an organic chromophore and n is 1. Note the abstract and Registry Number 281655-29-6.

Claims 3 and 4 are allowed.

The references made of record and not relied upon show the state of the art.

Application/Control Number: 10/085,272 Page 6 Art Unit: 1626 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fiona T. Powers whose telephone number is 703-308-4535. The examiner can normally be reached on Monday - Friday 8:30 AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph K. McKane can be reached on 703-308-4537. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4556 for regular communications and 703-308-4556 for After Final communications. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1235. From T. Powers Fiona T. Powers Primary Examiner Art Unit 1626 ftp June 18, 2003